

Amendments to the Claims

Please amend the claims as follows:

1. (Previously Presented) A projection type display unit, comprising,
a LCOS imager defining a plurality of controllable pixels;
a light source for exclusively generating light of a single selected color, said light source arranged for transmitting said light through said imager to produce an image of the selected color; and
a projector lens for magnifying and focusing said image for projection on a screen;
wherein said light source is comprised of a field emission device exciting a resonant microcavity anode with an active region, said active region having a phosphor disposed therein for emitting light of said selected color.
2. (Canceled)
3. (Original) The projection display unit according to claim 1 wherein three said imagers are provided and three said field emission devices are provided, each of said field emission devices exclusively generating a distinct color of light for projection through a respective one of said imagers to produce three distinct color images.
4. (Original) The projection display unit according to claim 3 wherein said three field emission devices produce red, green and blue light respectively.

5. (Original) The projection display unit according to claim 4 further comprising an optical combiner, said optical combiner merging each of said distinct color images to form a single composite image.

6. (Previously Presented) An illumination source for a LCOS projection system, comprising:

a vacuum cavity;

an array of field emission display points on a first side of the vacuum cavity;

an array of resonant microcavity anodes on a second side on the vacuum cavity for generating light of a selected color, the array being arranged so that said light is projected through a LCOS device to produce the image of the selected color;

wherein said field emission display points are electron emitters used to excite the array of resonant microcavity anodes to exclusively generate light of said selected color to create an image using only the selected color.

7. (Canceled)

8. (Original) The illumination source according to claim 7 further comprising a projector lens for magnifying and focusing said image for projection on a screen.

9. (Previously Presented) A method for displaying an image, comprising, exciting an array of resonant microcavities configured for exclusively emitting light of a single selected color;

projecting said light through a LCOS imager defining a plurality of controllable pixels to produce an image in the single selected color; and

magnifying and focusing said image through a lens for projection on a screen.

10. (Original) The method according to claim 9 further comprising the steps of:
optically combining said image produced with said light of said selected color with at least
one other image of a second selected color distinct from said first selected color.

11. (Original) The method according to claim 10 wherein said colors are
selected from the group consisting of red, green and blue.